

Western Electric Co., Incorporated,
Engineering Dept.,
New York.

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Issue 3 - BT-431303.
Replacing all previous issues.
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METHOD OF OPERATION
SIGNAL CIRCUIT

Auxiliary - Audible Signal - Local Test Desk - Full Mechanical Power Driven System.

GENERAL DESCRIPTION

1. This circuit is used to supply an audible signal for incoming calls to a local test desk, full mechanical power driven system.

DETAILED DESCRIPTION

OPERATION

2. When battery is connected to the (C) lead the (IT) relay operates, connecting ground to the contacts of the (TL) key. If the (TL) key is operated, ground is connected through the key contacts to the #4-A buzzer causing it to operate until the (TL) key is released. When ground is connected to the (F) lead the (TL) relay operates under control of the #149-N interrupter. If the (TL) key is operated, the operation of the (TL) relay connects ground through the contact of the (TL) key to the #4-A buzzer, causing it to operate twice during each second until the key is released. When a line lamp lights at the test desk in an incoming call from a local station, ground is connected to the (W) lead, operating the (LS) relay under control of the #149-N interrupter. The operation of the (LS) relay connects ground to the (TRK) key. The (TRK) key operated connects ground to the #4-A buzzer, causing it to operate until key is released. When a call comes in to the desk over a ring-down trunk battery is connected to the (X) lead operating the (TRK) relay which connects ground to the (LS) relay causing it to operate under control of the #149-N interrupter. The operation of the (LS) relay connects ground to the (TRK) key. The (TRK) key operated connects ground to the #4-A buzzer, causing it to operate until the key is released.

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CIRCUIT REQUIREMENTS

OPERATE

NON-OPERATE

RELEASE

B-10 After a soak of ap-
(IT) proximately .3 amp.
& (TRK) Test .023 amp.
Readj. .022 amp.

After a soak of ap-
proximately .3 amp.
Test .0019 amp.
Readj. .002 amp.

E-114 Test .008 amp.
(TL) Readj. .007 amp.
(LS)

Test .0028 amp.
Readj. .003 amp.